

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/806,038 03/22/2004		Sally Mackenzie	1231-218	1263		
32905	7590 01/12/2006		EXAM	EXAMINER		
JONDLE & ASSOCIATES P.C.			KUBELIK, ANNE R			
858 HAPPY CANYON ROA CASTLE ROCK, CO 80108		UTTE 230	ART UNIT	PAPER NUMBER		
	,		1638			
			DATE MAILED: 01/12/2006	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)					
Office Action Summary			038	MACKENZIE ET AL.					
			er	Art Unit					
		Anne R.		1638					
Period fo	The MAILING DATE of this communi or Reply	cation appears on tl	e cover sheet with the c	orrespondence ac	idress				
WHIC - Exter after - If NO - Failu Any r	CRTENED STATUTORY PERIOD FOR HEVER IS LONGER, FROM THE MANISIONS OF THE MANISIONS OF THE MANISIONS OF THE MANISIONS OF THE MANISION OF THE MAN	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. tutory period will apply and will, by statute, cause the ap	HIS COMMUNICATION vent, however, may a reply be tin will expire SIX (6) MONTHS from plication to become ABANDONE	N. nely filed the mailing date of this o D (35 U.S.C. § 133).					
Status									
1)	Responsive to communication(s) file	d on .							
2a) 🗌									
3) Since this application is in condition for allowance except for formal matters, prosecutio					e merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
4)🖾	4) Claim(s) <u>1-15</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	Claim(s) is/are allowed.								
•	6) Claim(s) is/are rejected.								
,	7) Claim(s) is/are objected to.								
8)⊠	Claim(s) <u>1-15</u> are subject to restriction	n and/or election re	equirement.						
Applicati	on Papers								
, —	The specification is objected to by the								
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any object								
44	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
11)[_]	The oath or declaration is objected to	by the Examiner. I	Note the attached Office	ACTION OF TORM P	10-152.				
Priority (ınder 35 U.S.C. § 119								
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
* 0	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
Attachmen	t(s)								
	ee of References Cited (PTO-892)		4) Interview Summary						
	e of Draftsperson's Patent Drawing Review (P mation Disclosure Statement(s) (PTO-1449 or		Paper No(s)/Mail D 5) Notice of Informal I		「O-152)				
	er No(s)/Mail Date	•	6) Other:						

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, drawn to a nucleic acid, classified in class 536, subclass 23.6.
- II. Claims 5-8, drawn to a protein, classified in class 530, subclass 370.
- III. Claims 9-10, drawn to a method of identifying a compound that inhibits MSH1 activity in a plant, classified in class 435, subclass 6.
- IV. Claim 11, drawn to a compound that inhibits MSH1 activity in a plant, classified in class 536, subclass 24.5.
- V. Claims 12-14, drawn to a method for identifying plant mutants arising from mitochondrial ectopic recombination, classified in class 800, subclass 279.
- VI. Claim 15, drawn to a plant mutant arising from mitochondrial ectopic recombination, classified in class 800, subclass 298.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case any one of the nucleic acids of group I can be used to transform plants, and the method of Group III can be used with any one of the nucleic acids of group I.

Groups I, II and IV are independent and distinct. DNA and protein, and compounds of unspecified composition differ in composition, structure and function. Furthermore, the protein of the second invention could be made by a process other than the expression of the gene of the

Page 3

first invention, such as chemical synthesis or purification from the natural source, and the DNA of the first invention may be used for processes other than the production of protein, such as a nucleic acid hybridization assay or plant transformation. Lastly, a search on DNA and protein requires searches of different databases.

Groups III and V are independent and distinct. The different methods have different staring materials and different method steps, and thereby produce different end products. Thus, searches on the methods are not co-extensive.

Inventions IV and III are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the method of Group III uses compounds other than that of Group IV, that is compounds that do not inhibit MSH1 activity.

Group VI and Groups I-IV are independent and distinct. The plant is not necessarily made using the compositons of groups I, II or IV, and is not produced by the method of group III or V. Thus, a search on the plant would not necessarily find art of the DNA, the protein, the compound or the methods.

Nucleotide sequences encoding different proteins are structurally distinct chemical compounds that are unrelated to one another, as are different proteins are structurally distinct chemical compounds that are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Each sequence requires an independent search of the sequence databases. Absent evidence to the contrary, each such nucleotide and amino acid sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq (see MPEP 803.04 and 2434).

If Applicant elects group I, II or III, Applicant is additionally required to select a single nucleotide sequence or amino acid sequence for said Group, as appropriate. This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of single genus of invention, but constitutes an independent and patentably distinct invention.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, fields of search, and classification, restriction for examination purposes as indicated is proper.

Applicant is advised that for the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anne R. Kubelik, whose telephone number is (571) 272-0801. The examiner can normally be reached Monday through Friday, 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg, can be reached at (571) 272-0975.

The central fax number for official correspondence is (571) 273-8300.

Application/Control Number: 10/806,038

Art Unit: 1638

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Page 5

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-Auco Hall 9199.

Anne Kubelik, Ph.D. January 9, 2006